

Date: Fri, 25 Jun 93 04:30:17 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #779
To: Info-Hams

Info-Hams Digest Fri, 25 Jun 93 Volume 93 : Issue 779

Today's Topics:

 ALERT: Major Solar Flare Alert - 25 June
 AURORA WATCH: Middle Latitude Auroral Activity Watch
 STS-57 Elements

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 25 Jun 93 05:18:36 GMT
From: news-mail-gateway@ucsd.edu
Subject: ALERT: Major Solar Flare Alert - 25 June
To: info-hams@ucsd.edu

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

MAJOR SOLAR FLARE ALERT

ISSUED: 04:30 UT, 25 JUNE

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

★ No Impact Expected ★

MAJOR ENERGETIC EVENT SUMMARY:

(All times are valid for the UT day of 25 June)

Flare Size: Class M5.1

Location: S06 (Unseen Region)

Tenflare: None.

SESC Times: Begin=25/0302 UT, Peak=25/0322 UT, End=25/0332 UT
(SESC Times are based on a half-power-point system)

Sweeps: Type II (In-progress).

Estimated shock velocity: 750 km/sec.

PRELIMINARY X-RAY TIME PROFILE DATA AND ESTIMATED STATISTICS:

BEGIN (XRAY)	MAX (XRAY)	END (XRAY)	DURATION	INTEG. FLUX	SWF DUR.
0303 (B7.9)	0322 (M5.1)	0342 (C9.4)	039 MIN.	0.059 J/m ²	033 min

NOTE: The xray time profile data above is not based on the half-power-point system, but is intended to give a general idea of the duration of the entire event, from the start to the end when xrays fall below M-class levels. Integrated x-ray flux covers the interval from start to end.

SYNOPSIS:

A major-category class M5.1 flare erupted from just beyond the southeast limb near S10 at 03:22 UTC on 25 June. The event was not particularly strong. However, it does confirm that the region due to rotate into view is quite volatile. Additional strong minor M-class flares and possible major events are expected from this unseen region.

POTENTIAL TERRESTRIAL IMPACT ASSESSMENT:

A geophysical impact is not expected from this event.

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

Date: 25 Jun 93 05:28:31 GMT
From: news-mail-gateway@ucsd.edu
Subject: AURORA WATCH: Middle Latitude Auroral Activity Watch
To: info-hams@ucsd.edu

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

MIDDLE LATITUDE AURORAL ACTIVITY WATCH

ISSUED: 05:00 UT, 25 JUNE

NOTE: We are beginning to provide special satellite images of auroral activity over the Antarctic polar regions from the DMSP F11 satellite. Anonymously FTP to the site "xi.uleth.ca" (IP number 142.66.3.29) and grab the GIF-formatted images from the directory "pub/solar/Aurora/Images". We hope to provide at least one image per day while the terminator is away from the Antarctic region. These images are obtained from the low-light camera's on-board the F11 DMSP satellite. The camera mode combined with the fact that there is no moon is the cause for "noise" in the images. Convolution filters will eliminate this noise. Files have the format "DDDHHMMv.GIF" where DDD is replaced with the day number in the current year (001-365), and HHMM represents the hour and minute (in UTC time) of the observation. The "v" indicates that the image is a visible-light image.

VALID UNTIL: 19:00 UTC ON 27 JUNE

MODERATE RISK PERIOD: 25 - 27 JUNE (UT days)

PREDICTED ACTIVITY INDICES FOR NEXT 4 DAYS: 25, 25, 20, 15 (25 - 28 JUN)
(INPUT INTO THE PREDICTIVE AURORA SOFTWARE *)

POTENTIAL MAGNITUDE OF MIDDLE LATITUDE AURORAL ACTIVITY: MODERATE

ESTIMATED OPTIMUM OBSERVING CONDITIONS: SUNSET TO 01:00 AM LOCAL TIME

EXPECTED LUNAR INTERFERENCE: LOW - MODERATE

OVERALL OPPORTUNITY FOR OBSERVATIONS FROM MIDDLE LATITUDES: FAIR

AURORAL ACTIVITY MAY BE OBSERVED APPROXIMATELY NORTH OF A LINE FROM...

MOST OF THE NORTHERN U.S. STATES AND SOUTHERN CANADA FROM SOUTHERN BRITISH COLUMBIA TO CENTRAL MONTANA TO NORTH DAKOTA TO MINNESOTA TO MICHIGAN TO NORTHERN NEW YORK STATE TO SOUTHERN MAINE AND POSSIBLY PARTS OF NEW HAMPSHIRE.

ACTIVITY MAY ALSO BE OBSERVED APPROXIMATELY NORTH OF A LINE FROM...

NORTHERN U.K. TO THE NORTHERN EUROPEAN REGIONS INCLUDING MUCH OF THE NORTHERN AND CENTRAL PARTS OF NORWAY, SWEDEN AND FINLAND, TO

NORTHERN RUSSIA. THERE IS AN OUTSIDE CHANCE AUSTRALIAN AND NEW ZEALAND REGIONS MIGHT SPOT ACTIVITY.

* Contact: Oler@Rho.Uleth.CA or COler@Solar.Stanford.Edu for more information regarding the Auroral Activity Prediction and Simulation Software.

SYNOPSIS...

A strong major solar flare that erupted at 07:35 UTC on 24 June combined with a well-placed solar coronal hole are expected to produce enhanced levels of auroral activity on 26 and possibly 27 June. Most of the activity is expected on 26 June following the arrival of the flare shock. Although nothing particularly significant is anticipated, there is an outside chance for minor auroral storm conditions.

Auroral activity is already enhanced and is visible over the high and polar latitude regions. Lunar phase will not significantly inhibit attempts to view activity.

This WATCH will remain active until 19:00 UT on 27 June when it will either be updated or allowed to expire.

** End of Watch **

Date: 25 Jun 93 06:47:47 GMT
From: news-mail-gateway@ucsd.edu
Subject: STS-57 Elements
To: info-hams@ucsd.edu

Date: 24 Jun 1993 16:20:49 GMT
<flloyd@decwrl.dec.com> (Fred Lloyd, AA7BQ) writes:

>This material now belongs in rec.radio.amateur.space:

>Thanks,

>-fred

(Dr. Kelso's elements info. deleted for brevity)

Many of us receive this newsgroup via E-Mail and do not have access to

My .02 worth.

Who are you? * I am number 2. * Who is number 1? * You are number 6.

```
>1. Why do you say PVC is bad at HF? It is certainly a nonconductor.
> The use of PVC may have HF limits because of flexibility in long
> large HF beams, but I'm unaware of any other PVC shortcomings.
```

— —

#include <std_disclaimer.h>

73 DE N5IAL (/4)

INTERNET: jim@n5ial.mythical.com | j.graham@ieee.org ICBM: 30.23N 86.32W
AMATEUR RADIO: (packet station temporarily offline) AMTOR SELCAL: NIAL

E-mail me for information about KAMterm (host mode for Kantronics TNCs).

End of Info-Hams Digest V93 #779
